

### REMARKS

This is a full and timely response to the nonfinal Office Action of February 26, 2003.

Reconsideration and allowance of the application and all presently pending claims are respectfully requested. Upon entry of this Response, claims 46, 48, and 63 are pending in this application.

Claim 46 is directly amended herein. It is believed that the amendments add no new matter to the present application.

The Examiner has rejected claims 46-48 and 63 under 35 U.S.C. §112, first paragraph, for containing subject matter that was not described in the specification.

#### 35 U.S.C. §112 Rejections

The rejection of claims 46, 48, and 62 has been overcome because claim 46 has been amended. In particular, claim 46 has been amended by deleting “excluding maleic acid diester and fumaric acid diester”, which makes the rejection related to that phrase moot. In addition, claim 46 has been amended by adding “selected from: acrylate, acryloxysilane, monomaleimide, and maleic anhydride” on lines 6 and 7. Support for this amendment is on page 43, line 18 through page 44, line 19 (specifically, page 43, line 30 and page 44 lines 11, 14, and 17). Further, claim 46 has been amended by adding “having a number average molecular weight of 100-25000” on line 16 of claim 46. Support for this amendment can be found on page 128 lines 31 and 32 and page 129 lines 1 and 2. In regard to specifying that the molecular weights are number average molecular weights for product (C), support can be found on page 129 lines 5 through 8. Therefore, the rejection should be withdrawn.

### CONCLUSION

In light of the foregoing amendments, Applicants respectfully submit that claims 46, 48, and 63 are in condition for allowance. Favorable consideration and allowance of the present application and all pending claims are hereby courteously requested. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned attorney at (770) 933-9500.

Respectfully submitted ,

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**ANNOTATED VERSION OF MODIFIED CLAIMS TO SHOW CHANGES MADE**

The following is a marked up version of the amended claims. Amend the following claims by adding the language that is underlined (“\_\_\_”) and by deleting the language that is enclosed within brackets (“[ ]”):

46. (Twice amended) A process for the preparation of urethane resins comprising the steps of
- (1) reacting a compound(a) having a hydrolyzable group selected from the group consisting of alkoxy and acetoxy groups directly bonded to 1 to 10 silicon atoms and having an organic group(I) selected from the group consisting of primary amino, secondary amino and acryloyl groups, with a compound(b) being capable of reacting with said organic group(I) to form a secondary amino compound [excluding maleic acid diester and fumaric acid diester] selected from: acrylate, acryloxysilane, monomaleimide, and maleic anhydride, in order to produce a product(A) having said hydrolyzable group directly bonded to 1 to 10 silicon atoms and having less than two secondary amino groups in one molecule;
- (2) reacting a polyisocyanate compound (compound(d)), with a compound selected from the group consisting of: a polyol compound (compound(c)), a polythiol compound (compound(c-1)), and a compound (product(C)) having a number average molecular weight of 100-25000 and having at least 0.2 terminal secondary amino groups in one molecule, in order to produce a (thio)urethane pre-polymer (product(B)) having a terminal isocyanate group in an amount of 4 % or less by weight of said product(B), wherein said product(C) is obtained by reacting a compound(e) having an organic group(II) having a number average molecular weight of 100-25000 selected from the group consisting of amino and acryloyl groups, with a compound(f) [having a number average molecular weight of 100-25000 and] being capable of reacting with said organic group(II) to form a secondary amine compound; and
- (3) reacting said product(A) with said product(B) in the proportions of at least 0.5 equivalent of said product(A) per free isocyanate group of said product(B).